

$$\begin{array}{l}
 A = 8 \\
 B = 3
 \end{array}
 \xrightarrow{\text{LCM}} 24
 \begin{array}{l}
 \nearrow 3 \text{ units of work done} \\
 \searrow 8 \text{ units of work destroyed}
 \end{array}$$

$$\begin{array}{l}
 6 \text{ day work of } A = 3 \times 6 = 18 \text{ units} \\
 B \text{ destroying } 2 \text{ day work} = 2 \times 8 = 16 \text{ units} \\
 \text{Total work done} = 2 \text{ units}
 \end{array}$$

$$\begin{array}{l}
 \text{Total work remaining} = 24 - 2 = 22 \\
 \Rightarrow \frac{22}{3} = 7.33
 \end{array}$$